UTAH DIVISION OF OIL, GAS AND MINING

REMARKS: WELL LOG___ ELECTRIC LOGS___ FILE X WATER SANDS___ LOCATION INSPECTED ___ SUB. REPORT/ABD.___

* Location Abandoned - Feb 2, 1982, Well never drilled

DATE FILED 8-13-79

LAND: FEE & PATENTED STATE LEASE NO. PUBLIC LEASE NO. U-3707 INDIAN

DRILLING APPROVED: 8-10-79

SPUDDED IN:

COMPLETED: PUT TO PRODUCING:

INITIAL PRODUCTION:

GRAVITY A.P.I.

GOR:

PRODUCING ZONES:

TOTAL DEPTH:

WELL ELEVATION:

DATE ABANDONED: LA February 2, 1982

FIELD: ~~West Bar X~~ 3/86 Wildcat

UNIT:

COUNTY: Grand

WELL NO. Hancock Federal 19-2 API NO: 43-019-30535

LOCATION 901' FT. FROM ~~XX~~ (S) LINE. 1715' FT. FROM (E) ~~XX~~ LINE. SW SE ¼ – ¼ SEC. 19

TWP.	RGE.	SEC.	OPERATOR	TWP.	RGE.	SEC.	OPERATOR
				17S	25E	19	A. LANSDALE

FILE NOTATIONS

tered in NID File	..✓.....	Checked by Chief	.....
ation Map Pinned	...✓....	Approval Letter	.....
rd Indexed	..✓.....	Disapproval Letter	.....

COMPLETION DATA:

te Well Completed	Location Inspected .....
..... WW..... TA.....	Bond released
GW..... OS..... PA.....	State or Fee Land .....

LOGS FILED

Driller's Log.....

Electric Logs (No.) .....

E..... I..... Dual I Lat..... GR-N..... Micro.....

BHC Sonic GR..... Lat..... MI-L..... Sonic.....

CBLog..... CCLog..... Others.....

P22 791188

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED—
NOT FOR INTERNATIONAL MAIL
(See Reverse)

CF

SENT TO
A. Lansdale

STREET AND NO.
P.O. Box 68

P.O., STATE AND ZIP CODE
Garden Grove, Cal 92642

POSTAGE		$
CONSULT POSTMASTER FOR FEES — OPTIONAL SERVICES	CERTIFIED FEE	¢
	SPECIAL DELIVERY	¢
	RESTRICTED DELIVERY	¢
	RETURN RECEIPT SERVICE — SHOW TO WHOM AND DATE DELIVERED	¢
	RETURN RECEIPT SERVICE — SHOW TO WHOM, DATE, AND ADDRESS OF DELIVERY	¢
	RETURN RECEIPT SERVICE — SHOW TO WHOM AND DATE DELIVERED WITH RESTRICTED DELIVERY	¢
	RETURN RECEIPT SERVICE — SHOW TO WHOM, DATE AND ADDRESS OF DELIVERY WITH RESTRICTED DELIVERY	¢
TOTAL POSTAGE AND FEES		$

POSTMARK OR DATE

FEB 3 1982 USPO

PS Form 3800, Apr. 1976

STICK POSTAGE STAMPS TO ARTICLE TO COVER FIRST CLASS POSTAGE, CERTIFIED MAIL FEE, AND CHARGES FOR ANY SELECTED OPTIONAL SERVICES. (see front)

1. If you want this receipt postmarked, stick the gummed stub on the left portion of the address side of the article, **leaving the receipt attached**, and present the article at a post office service window or hand it to your rural carrier. (no extra charge)
2. If you do not want this receipt postmarked, stick the gummed stub on the left portion of the address side of the article, date, detach and retain the receipt, and mail the article.
3. If you want a return receipt, write the certified-mail number and your name and address on a return receipt card, Form 3811, and attach it to the front of the article by means of the gummed ends if space permits. Otherwise; affix to back of article. Endorse front of article **RETURN RECEIPT REQUESTED** adjacent to the number.
4. If you want delivery restricted to the addressee, or to an authorized agent of the addressee, endorse RESTRICTED DELIVERY on the front of the article.
5. Enter fees for the services requested in the appropriate spaces on the front of this receipt. If return receipt is requested, check the applicable blocks in Item 1 of Form 3811.
6. Save this receipt and present it if you make inquiry.

☆ GPO: 1979 302-878

SENDER: Complete items 1, 2, and 3.
Add your address in the "RETURN TO" space reverse.

1. The following service is requested (check one.)
   - [X] Show to whom and date delivered..... ¢
   - [ ] Show to whom, date and address of delivery..... ¢
   - [ ] RESTRICTED DELIVERY
     Show to whom and date delivered..... ¢
   - [ ] RESTRICTED DELIVERY.
     Show to whom, date, and address of delivery.$

(CONSULT POSTMASTER FOR FEES)

2. ARTICLE ADDRESSED TO:

A. Lansdale, P.O. Box 68
Garden Grove, California 92642

3. ARTICLE DESCRIPTION:

REGISTERED NO.	CERTIFIED NO.	INSURED NO.

(Always obtain signature of addressee or agent)

I have received the article described above.

SIGNATURE ☐Addressee ☐Authorized agent

4. DATE OF DELIVERY | POSTMARK

5. ADDRESS (Complete only if requested)

6. UNABLE TO DELIVER BECAUSE: | CLERK'S INITIALS

☆GPO : 1979 288 848

3811, Jan. 1979

RETURN RECEIPT, REGISTERED, INSURED AND CERTIFIED MAIL

UNITED STATES POSTAL SERVICE

OFFICIAL BUSINESS

SENDER INSTRUCTIONS

Print your name, address, and ZIP Code in the space below.

- Complete items 1, 2, and 3 on the reverse.
- Attach to front of article if space permits, otherwise affix to back of article.
- Endorse article "Return Receipt Requested" adjacent to number.

PENALTY FOR PRIVATE USE TO AVOID PAYMENT OF POSTAGE, $300

U.S. MAIL

RETURN TO

Division of Oil, Gas & Mining
(Name of Sender)

4241 State Office Bldg
(Street or P.O. Box)

Salt Lake City, Utah 84114
(City, State, and ZIP Code)

15

Form 9-331 C
(May 1963)

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1425.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK: DRILL [X] DEEPEN [ ] PLUG BACK [ ]

b. TYPE OF WELL: OIL WELL [ ] GAS WELL [X] OTHER — SINGLE ZONE [ ] MULTIPLE ZONE [ ]

2. NAME OF OPERATOR: A. Lansdale

3. ADDRESS OF OPERATOR: P. O. Box 68, Garden Grove, Calif. 92642

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
At surface: SW. SE. Sec. 19, T 17S, R 25E, S.L.M.
At proposed prod. zone: 1715' fr. E-line and 901' fr. S-line

5. LEASE DESIGNATION AND SERIAL NO.: U-3707

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME:

8. FARM OR LEASE NAME: Federal

9. WELL NO.: Hancock #19-2

10. FIELD AND POOL, OR WILDCAT: West Bar-X

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: SW.SE. Sec. 19-17S-25E S.L.M.

12. COUNTY OR PARISH: Grand

13. STATE: Utah

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*: Approx. 18 miles from Mack, Colo.

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any): 901'

16. NO. OF ACRES IN LEASE: 1280

17. NO. OF ACRES ASSIGNED TO THIS WELL: 160

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.: no other well

19. PROPOSED DEPTH: 4500'

20. ROTARY OR CABLE TOOLS: Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.): 5445' grd; 5455' K.B.

22. APPROX. DATE WORK WILL START*: Aug. 20, 1979

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
11"	8 5/8"	24.00	200 ft.	100 sks
7 7/8"	4½"	10.50	Thru pay zone	Cemented to 200' above Kd.

It is planned to drill a well at the above location to test the gas and/or oil production possibilities of the sands in the Dakota, Cedar Mt., Morrison, and Entrada formations. The well will be drilled to approximately 50 to 100 ft. below the top of the Entrada formation, if conditions permit. The well will be drilled with rotary tools, using air for circulation. The surface casing (8-5/8") will be set at about 200' K.B. and cemented with returns to the surface. A blowout preventer and rotating head will be installed on top of the surface casing. Fill and kill lines will be connected to the well head below the blind rams on the blowout preventer. Any gas encountered will be flared at the end of the blewie line, and roughly checked for volume thru a 2" line after the pipe rams have been closed. A float valve will be used in the bottom drill collar at all times. A prognosis of the well is attached.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED (X) A. Lansdale TITLE Owner DATE July 14, 1979

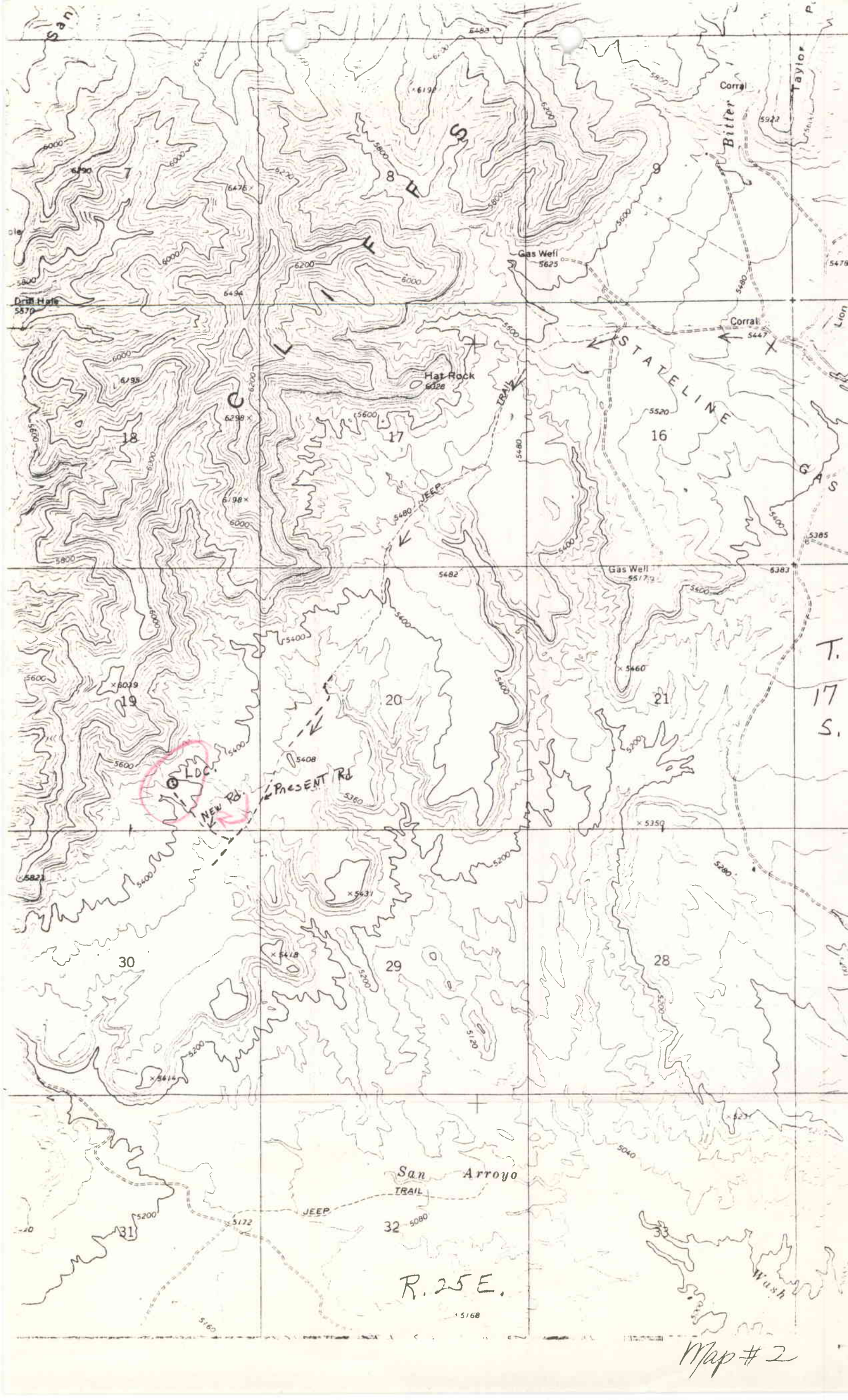
(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions On Reverse Side


Corral
Bitter
Taylor
Gas Well
5625
Drill Hole
5870
Corral
5447
STATELINE
Hat Rock
6028
TRAIL
JEEP
Gas Well
5517?
LOC.
NEW RD.
PRESENT RD
San Arroyo
TRAIL
JEEP
Wash
T. 17 S.
R. 25 E.
7
8
9
16
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18
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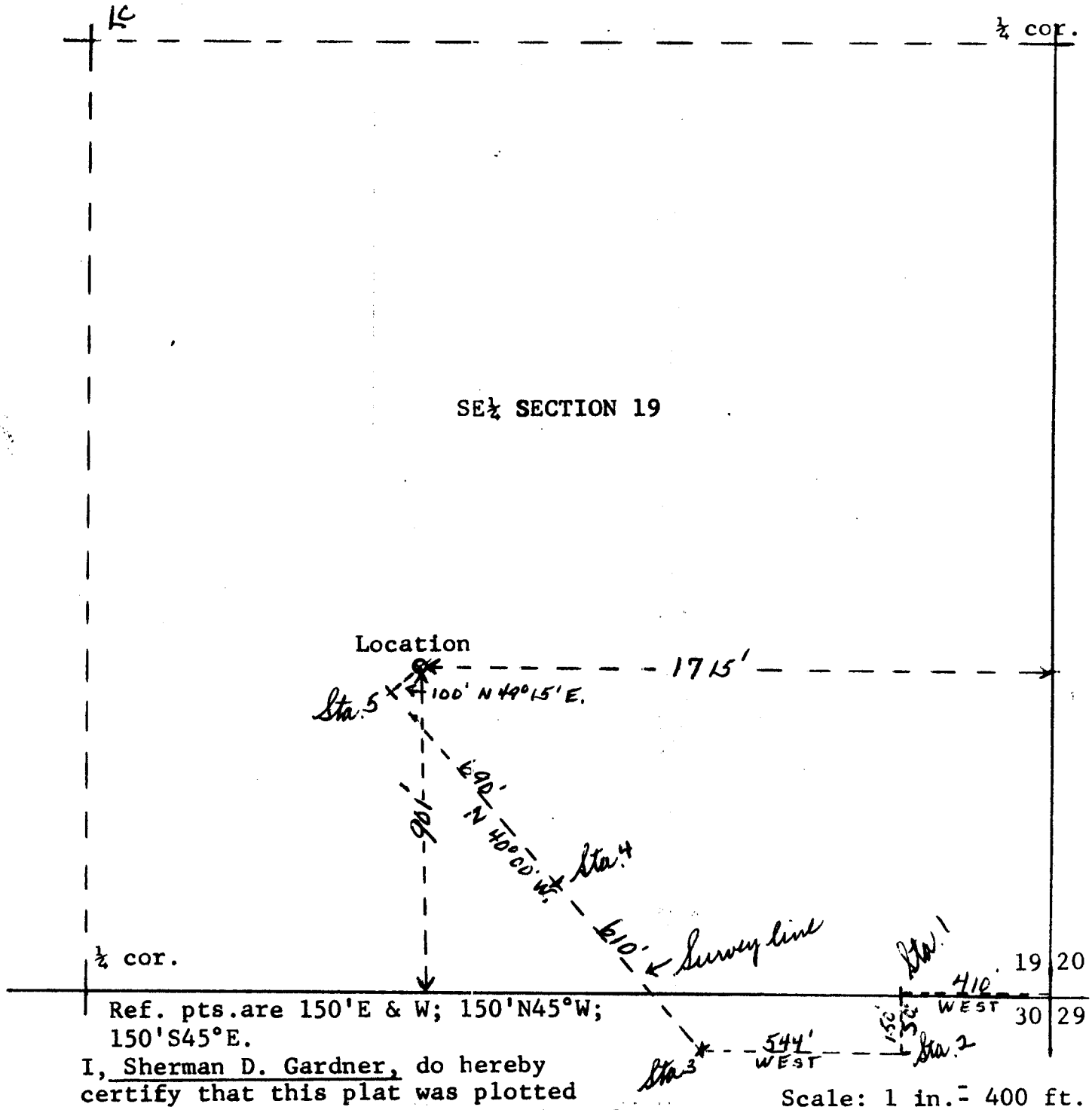
Map #2

LOCATION PLAT FOR
LANSDALE-HANCOCK
FED.#19-2 WELL
SW.SE.SEC.19-17S-25E
(1715'fr.E-line & 901'fr.S-line)
GRAND COUNTY,UTAH
Elev.: 5445'grd.



Ref. pts.are 150'E & W; 150'N45°W; 150'S45°E.

I, Sherman D. Gardner, do hereby certify that this plat was plotted from notes of a field survey made under my direct supervision, responsibility and checking on July 9, 1979.

Sherman D. Gardner
Registered Land Surveyor
State of Utah #1556

Scale: 1 in. = 400 ft.
Date:

PLAT NO. 1

PROGNOSIS FOR
A. LANSDALE
HANCOCK #19-2 WELL

Location: SW. SE. Sec. 19, T 17S, R 25E, S.L.M., Grand County, Utah (901' fr. S-line and 1715' fr. E-line)

Elevations: 5445' grd; 5455' K.B.

Surface Casing: 200 ft. of 8-5/8", 24.00#, K-55, R-3 casing set and cemented w/100 sks of cement w/3% CaCl, with returns to the surface. The surface hole (11") will be drilled to 200' K.B. and will be less than 1½° deviation.

Expected Formation Tops:

Formation	Depth to Top	Thickness	Datum
Mancos	Surface	3655'	5455'
Dakota *	3655'	90'	1800'
Cedar Mountain *	3745'	80'	1710'
Morrison (Brushy Basin) *	3825'	275'	1630'
(Salt Wash) *	4100'	260'	1355'
Curtis-Summerville	4360'	70'	1095'
Entrada	4430'	—	1025'
Total Depth	4500'		

* Formations with potential productive zones.

1. It is planned to drill a 11" surface hole for the surface casing down to a depth of about 200 ft. and set 8-5/8" casing with approx. 100 sks of cement with returns to the surface. A casing head or flange will be mounted on top of the surface casing and a blow-out preventer with blind and pipe rams (hydraulic) will be mounted on the casing head. A rotating head will then be mounted on top of the blowout preventer. A blewie line, at least 100 ft. long, will then be attached to the rotating head and extended into the reserve pit.

2. A 7-7/8" hole will then be drilled below the surface casing, using air for circulation. A flare will be maintained at the end of the blewie line at all times while drilling below 2000'. This will insure that no gas will be missed. The air drilling will also minimize the damage to the hydrocarbon reservoir.

3. Samples of the cuttings will begin at 2500'. 30-ft. samples will be taken from 2500' to 3500', and then 10-ft. samples will be taken from 3500' to total depth.

4. It is planned to drill the well to a depth which is approximately 100 feet below the top of the Entrada formation unless good commercial flow of gas is obtained above this depth.

5. If a high gas flow (500 MCF/day or more) and/or when the total depth of the well is reached, electric logs will be run. Prior to running logs, high viscosity mud (not less than 100 vis.) will be pumped into the hole to provide control of the gas and to provide a conductive medium for the logs. A dual-induction-laterolog will be run from bottom to the top of the hole, and a gamma-density and compensated neutron porosity log will be run from the bottom to a point which is 150' above the top of the Dakota formation.

6. If good production (over 500 MCF) is obtained, 4½" O.D., 10.50#, K-55, R-3 new casing will be run and cemented conventionally with sufficient R.F.C. cement to cover 200 ft. above the top of the Dakota formation. The production zone will then be perforated, 2 3/8" O.D. tubing run, and completed conventionally.

7. It is anticipated that the drilling of the well will require approximately ten days.

W. Don Quigley

W. Don Quigley
Consulting Geologist
Salt Lake City, Utah

Form: DQ-1-79

N T L - 6 P L A N R E P O R T

For

Well Name: Hancock #19-2 Well (A. Lansdale)

Location: SW. SE. Sec. 19-17S-25E. S.L.M., Grand County, Utah

1. Existing Roads: (See attached Maps)

A. Well Location: (See Plat #1)

Reference Stakes: 150' N 45° W; and 150' S 45° E.

Perimeter Stakes: Above stakes outline perimeter of well pad.

B. Route and Distance to Well Site From Reference Point: (See att. maps)
Approx. 11 miles from the junction of #2 road w/old hwy 6-5 northwest on #2 road to the cliffs then SW along a trail for about 4 miles to the location.

C. Access Roads (Identify secondary roads to be used): (See att. maps)
The first 11 miles of secondary road from the reference pt. to the cliffs is county road and is crowned, graded, ditched and about 24' wide. The last 4 miles to the location is over natural Mancos surface and soil with some conglomerate on the bench areas. It is unimproved and is not crowned or ditched. It is in fair condition and should require no improvement or maintenance at this time of the year.

D. Roads Within 3 mile Radius: (See att. maps) All roads within three miles of the site are mostly unimproved roads cut in typical Mancos soil. None are crowned or ditched or gravelled. The portion of the road from the present road to the location (approx. ½ mile) will be new and will follow a narrow divide and will be built on gravel, sand and some scattered rocks.
Surface type and conditions: All roads in the area are natural Mancos shale surface with clay, sand, gravel and rocks. Some are graded, but have not been gravelled. Some are culverts installed in places where roads cross deep washes.

E. Roads Within 1 mile Radius: (See att. maps) See 1-D Above.
The last ½ mile of road to the well site will be a new road cut in Mancos soil and will be on sands and gravel on the slopes and on the bench area. It will not be crowned or ditched. It will be a maximum of 20 feet in width and will be a short grade (½ mile in length) of 6% or less. In general, the road will be flat with little dirt piled at sides.

F. Plans for Road Improvement & Maintenance:
No road improvement or maintenance are planned for the #2 road or access road, other then smoothing out the ruts in places at this time.

F. In the event of production, the last 4 miles of road will be improved by crowning and ditching. If severe weather conditions do occur this road may have to be dozed out to a solid base to permit the passage of traffic. The dirt would be piled at the sides until dried out and then would be pushed back onto the center of the road.

2. Planned Access Roads: (See att. maps) See above. Only one quarter mile of new road is required.

(1) Width: 20 ft. maximum
(2) Maximum Grades: 6% or less
(3) Turnouts: None
(4) Drainage Design: None
(5) Location and Size of Culverts, Cuts, and Fills: No cuts, fills, or culverts will be required. The road will be on a bench or divide.
(6) Surfacing Material: The bench or divide has gravel and sand on the surface and should provide a good road base.
(7) Gates, Cattleguards, or Fence Cuts: None
(8) All new roads have been flagged as required.

3. Location of Existing Wells: (See Map No. 2)

(1) Water Wells: None
(2) Abandoned Wells: See Map
(3) Temporarily Abandoned Wells: None
(4) Disposal Wells: None
(5) Drilling Wells: None
(6) Producing Wells: None within 2 mile radius
(7) Shut-in Wells: None
(8) Injection Wells: None
(9) Monitoring or Observation Wells: None

4. Location of Existing and/or Proposed Facilities:

A. Within 1-mile radius of location show the following existing facilities owned or controlled by lessee/operator:

(1): Tank Batteries: (Size) None

(2) Production Facilities: None

(3) Oil gathering lines: None

(4) Gas gathering lines: None

(5) Injection lines: None

(6) Disposal lines: None

(7) Are lines buried? ---

B. If new facilities are contemplated, in the event of production, show: (These facilities depend on the outcome of the proposed well and are really unknown at this time.) Show a general proposed plan. (See Plat No. 2)

(1) Are any facilities planned off well pad? None. In the event of gas production, a gas gathering line will have to be laid to the main gas line; but this will be covered by a separate proposed plan at that time, accompanied with maps, surveys, etc.

(2) Give dimensions of facilities: See Plat No. 2

(3) Construction methods and materials: Location will be levelled for production equipment. Tank batteries will be placed on a 3-in. gravel pad and surrounded with an 18" dike (15' from tanks). Separators and heater-treaters will be placed on gravel pads or cement bases. Pump jacks will be on cement platforms or on raised dirt and gravel mounds. All pipe lines on the pad will be buried.

(4) Protective measures for livestock and wildlife: All open pits will be fenced with barbed wire and pump jacks or rotating machinery will have guards to prevent danger by moving parts.

C. Plan for rehabilitation of disturbed areas no longer needed after drilling operations are completed: Well site will be cleaned, levelled, and graded for production equipment; pits folded-in or

C. fenced with barbed wire. While production ensues, previous areas of well pad not needed for production operations will be restored as in Item 10 below. This work will be done within 30 days, (or sooner if possible) after the completion of the well.

5. Location & Type of Water Supply: (See att. maps)

A. Type of Water Supply: Water will have to be hauled by truck to the location from West Salt Creek near Mack, Colo. (See map #1) This will be a distance of about 20 miles.

B. Method of Transporting Water: By truck from West Salt Creek along the old hwy 6-50 and #2 road and well road as shown on the No. 1 map.

C. Is Water Well Planned? No
If so, describe location, depth and formation:

6. Source of Construction Materials:

A. See attached map and describe: None will probably be required, but in case of severe weather and thawing conditions some low spots may have to be rocked or gravelled.

B. Identify if Federal, Indian, or Fee Land: Federal

C. Describe Material: (Where from and how used) Probably from a gravel bench nearby and permission from BLM will be obtained first.

D. See item 1-C and 2 above.

7. Waste Disposal:

(1) Cuttings: Will be blown into reserve pit. (See Plat #3)
(2) Drilling Fluids: In mud tanks; excess put into reserve pit.
(3) Producing Fluids (oil or water) Oil in tanks; water in reserve pit.
(4) Human Waste: Toilet with pit (4' deep) with lime for odor and sanitation control. Will be covered with soil (3' deep) at end of operation.

(5) Garbage & Other Waste: (Burn pit will be adequately fenced with chicken wire to prevent scattering of debris by wind) Put into burn pit and burned periodically.

(6) Clean-up: (See item 10 below) All garbage and unburned debris will be buried by at least 3' of cover after the drilling and completion operations are finished. The unused material and all equipment will be removed from the site and taken to supply yards or to the next drill site, at the time the drill rig is removed.

8. Airstrips and/or Camp Sites (Describe): None needed.

9. Well Site Layout: (See Plat No. 4)

(1) Describe cuts or fills: The site is on a slope near the edge of a cliff. About 5 ft. (deep) will be cut from the west and north sides and filled on the east and south sides. No soil or rocks will be pushed over the cliff. The top soil will be piled at the south.

(2) Describe pits, living facilities, soil stockpiles: Reserve pit will be long and narrow as shown with excavated material piled at south end of trench. Soil will be piled at south side. Burn pit will be 4'X6'X6' deep and fenced. Two or three house trailers will be used for supervisory personnel.

(3) Rig Orientation, Pipe rack, Access Road Entrance, etc.: (See Plat #3)

(4) Are Pits Lined? Unlined, with 4 ft. banks.

10. Plans For Restoration:

A. If Well is completed: Site will be cleaned, debris removed, pits folded-in or fenced with barbed wire, and site levelled for production equipment. All unused portions will be contoured, graded, scarred, and seeded with wheat grass, or recommended seed mix by BLM.

B. If Well is abandoned:

(1) Clean-up, levelling, folding pits-in, contouring: These items will be done as soon as possible, probably within 30 days after the

B. (1) well is finished.

(2) Seeding location and access road: Site will be seeded with crested wheat grass, or as suggested by BLM by hand broadcasting and then scarred with a dozer or spike-toothed drag. The new access road, if no longer needed, will be erased, contoured, seeded, and scarred as above. Water bars will be placed where needed.

(3) Will pits be fenced or covered? If there is a large amount of fluid in the pit it will be fenced with barbed wire before the rig is released and will remain fenced until the fluid has (cont. on pg.7)

(4) Is there any oil in reserve pit? Probably none.
If so, describe disposal: The normal small amount of rig oil will be covered over. If there does happen to be a large amount of oil in the pit, it will be removed before covering the pit.

(5) When will restoration work be done? As soon as possible. Within 60 days after equipment is removed if weather and availability of clean-up equipment permit and will be completed within 10 days thereafter.

11. Description of Land Surface:

(1) Topography & Surface Vegetation: The well site is on a slope and narrow ridge at the base of the cliffs and is sloping gently to the SW. The surface soil is gravel, rocks and sand. There are some cedar and juniper trees on the location. The north and west sides of the location will be cut down about 5 ft. and filled on the southeast side.

(2) Other Surface Activities & Ownership: There are no powerlines, power sites, irrigation ditches or dams in the area. The land around the site is federal land with the minerals and surface owned by the public. Nearby areas are also being developed for oil and/or gas production. Some cattle grazing may be current in the area.

(3) Describe other dwellings, archaeological, historical, or cultural sites: There are no known buildings, archaeological, historical, or cultural sites within ½ mile of the well site. There is no farming, irrigation or construction within ½ mile. Deer, cattle, and horses graze in the area. An archaeological report will be provided on the site and road as soon as possible.

12. Operators Representative: (Address & Phone number)

W. Don Quigley, 57 West So. Temple, Salt Lake City, Utah 84101
801-359-3575

13. Certification:

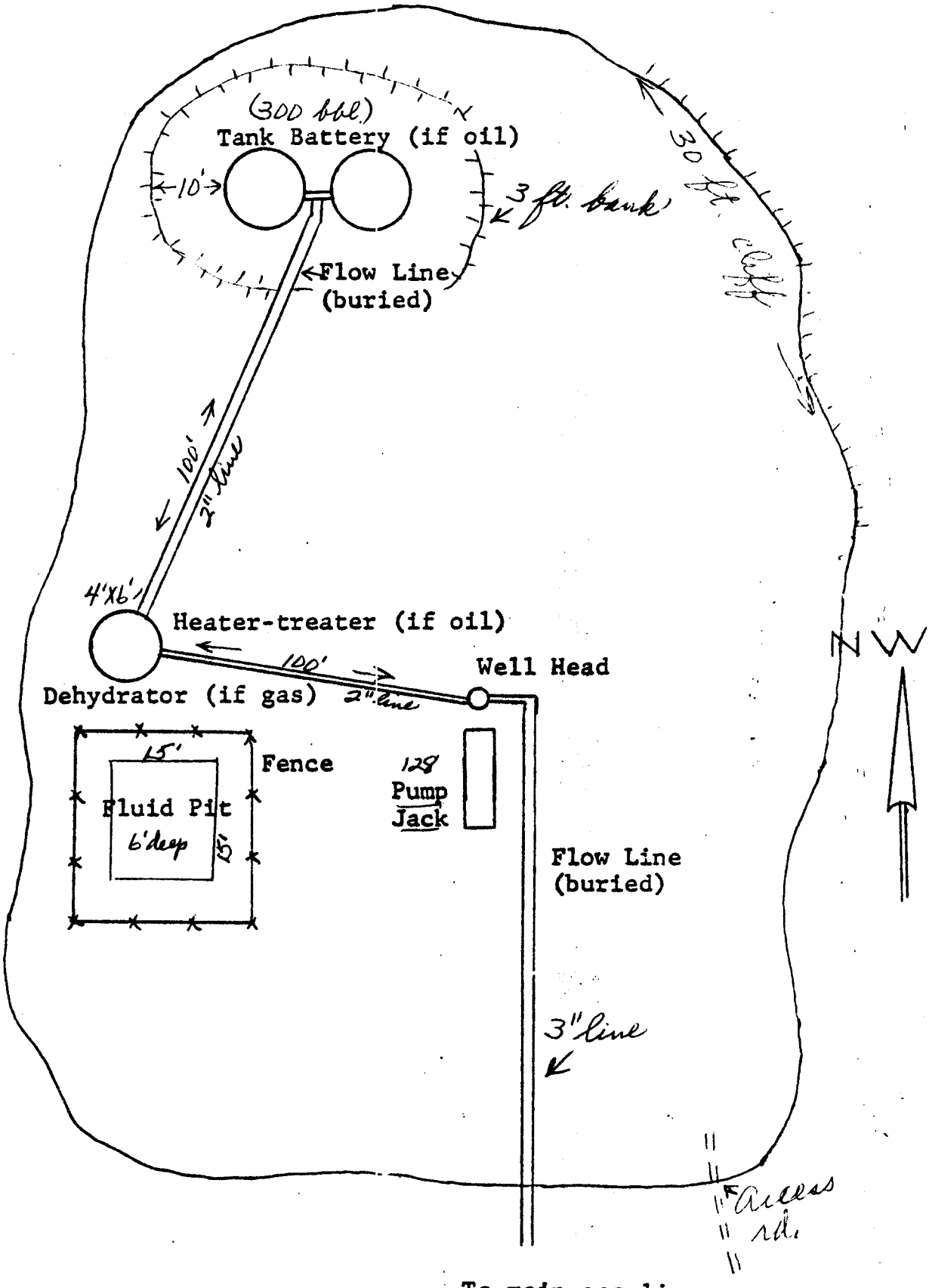
I hereby certify that I, or persons under my direct supervision, have inspected the drill site and access route; that I am familiar with the conditions which presently exist; that statements made in this plan are, to the best of my knowledge, true and correct; and that work associated with the operations proposed herein will be performed by A. Lansdale and her contractors in conformity with this plan and terms and conditions under which it is approved.

Date: July 16, 1979 Name: W. Don Quigley

Title: Geological Consultant

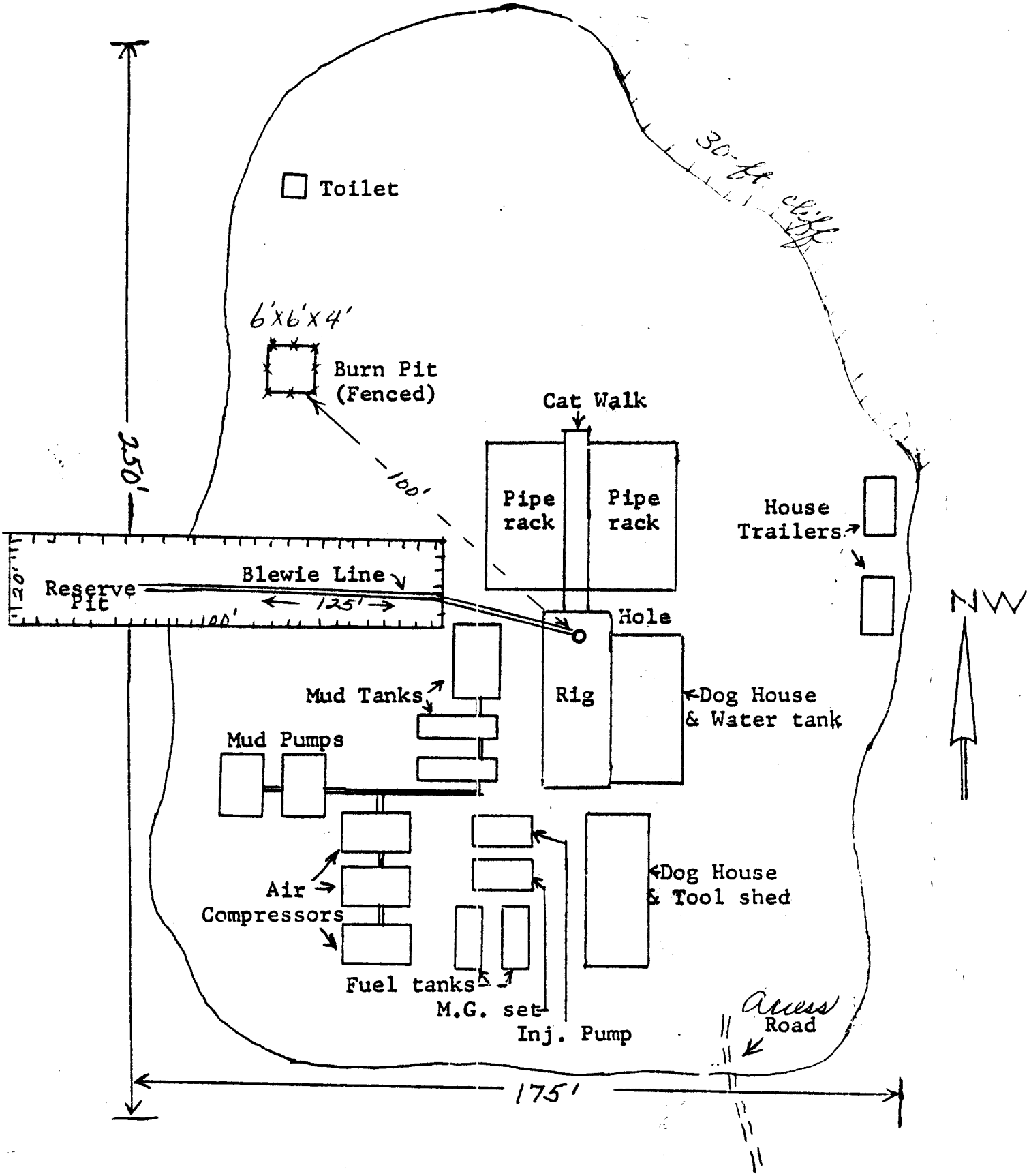
10. (B-3): dried sufficiently to allow covering over; otherwise the pit will be folded in and covered soon after the rig is removed.

PLAN FOR PRODUCTION EQUIPMENT
A. LANSDALE
HANCOCK #19-2 WELL
SW. SE. SEC. 19-17S-25E.



Plat No. 2

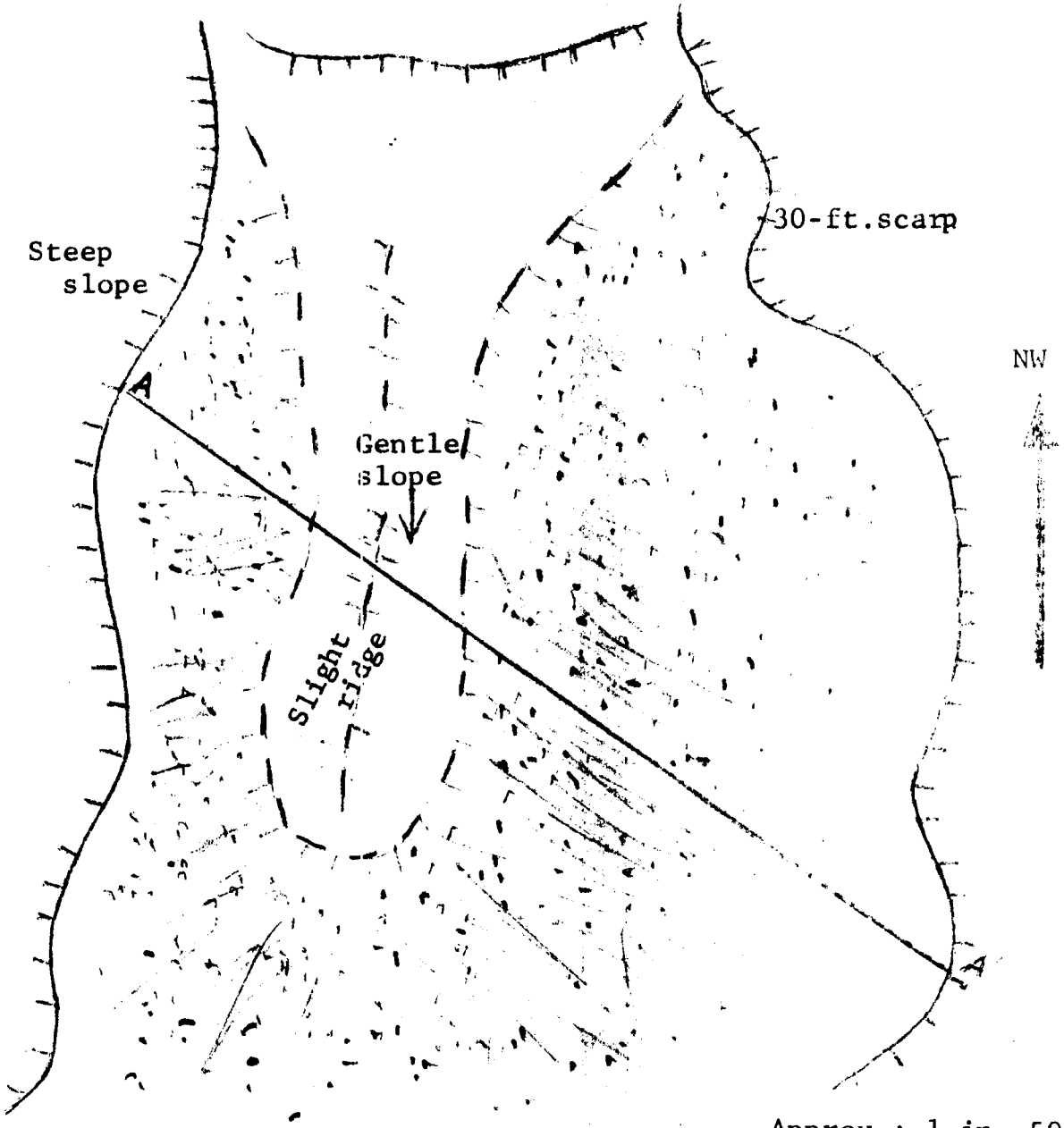
LOCATION PLAN FOR
A. LANSDALE
HANCOCK #19-2 WELL
SW. SE. SEC. 19-17S-25E.

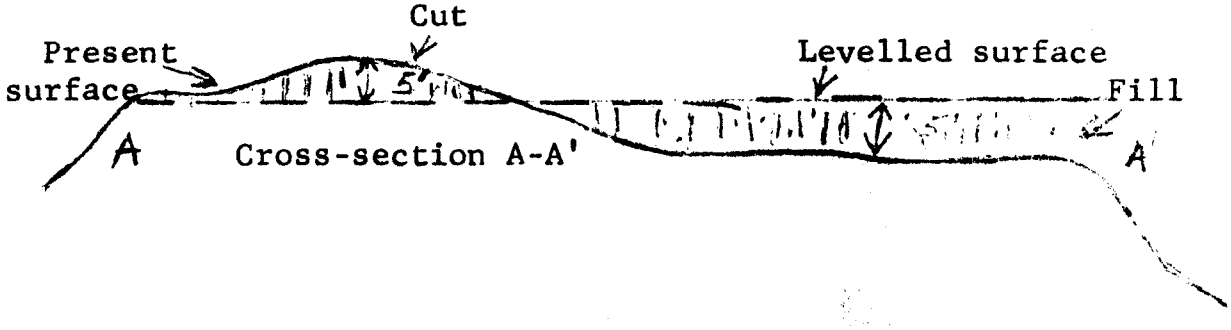


Scale: 1 in. = approx. 30 ft.

Plat No. 3

CUT AND FILL SKETCH
FOR
HANCOCK #19-2 WELL





PLAT NO.4

WELL CONTROL EQUIPMENT FOR
A. LANSDALE
HANCOCK #19-2 WELL
SW. SE. SEC. 19-17S-25E.
GRAND COUNTY, UTAH

The following control equipment is planned for the above designated well: (See attached diagram)

1. Surface Casing:
   - A. Hole size for surface casing is 11".
   - B. Setting depth for surface casing is approx. 200 ft.
   - C. Casing specs. are: 8 5/8" O.D., K-55, 24.00#, 8 rd. thread, R-3 new or used.
   - D. Anticipated pressure at setting depth is approx. 20 lbs.
   - E. Casing will be run using three centralizers and a guide shoe, and will be cemented with 75 sks of cement with returns to the surface.
   - F. Top of the casing will be near ground level.

2. Casing Head:

   Flange size: 10", A.P.I. Pressure rating: 2000# W.P., Series 600; Cameron, OCT, or equivalent; new or used; equipped w/two 2" ports with nipples and 2", 2000# W.P. ball or plug valves. Casing head and valves set above ground level. (A flange only may be used on top of the casing, if the B.O.P. is equipped with 2" outlets below the blind rams.)

3. Intermediate Casing:

   None

4. Blowout Preventors:
   - A. Double rams; hydraulic; one set of blind rams; one set of rams for 3½" or 4" drill pipe; 10" flange; 2000# or greater W.P.; Series 900; equipped with mechanical wheels and rod for back-up; set on top of casing head flange and securely bolted down, and pressure tested for leaks up to 2000# p.s.i. A hydraulically operated hy-drill may be used in place of the above B.O.P., if equipped with 2" outlets below the rams. B.O.P. will be tested for leaks at 2000# p.s.i. prior to drilling below surface casing.
   - B. Rotating Head: Shaffer, Grants or equivalent; set on top of blowout preventor and bolted securely; complete with kelly drive, pressure lubricator; 3½" or 4" rubber for

2000# W.P.; need not have hydril assembly on bottom, if a separate hydril or B.O.P. is used.

C. Fill and Kill Lines: The fill and kill lines (2" tubing or heavy duty line pipe) are to be connected thru the 2" valves on the casing head and thru a manifold to permit ready switching from the fill to kill lines.

5. Auxillary Equipment:

A float valve is to be used in the bottom drill collar at all times. A safety valve that can be used in the drill pipe will be kept within easy reach on the rig floor at all times.

6. Anticipated Pressures:

The shut-in pressures of the Dakota, Cedar Mountain, and Morrison formations at depths of 2000' to 3000' in the area have been measured at about 500# to 900# maximum. No toxic gases have ever been encountered in the area and none are anticipated.

7. Drilling Fluids:

Air will be used to drill the subject well until water is encountered, then air-soap-water mist will be used to drill the well deeper. In case of excessive caving problems, it may be necessary to convert to mud.

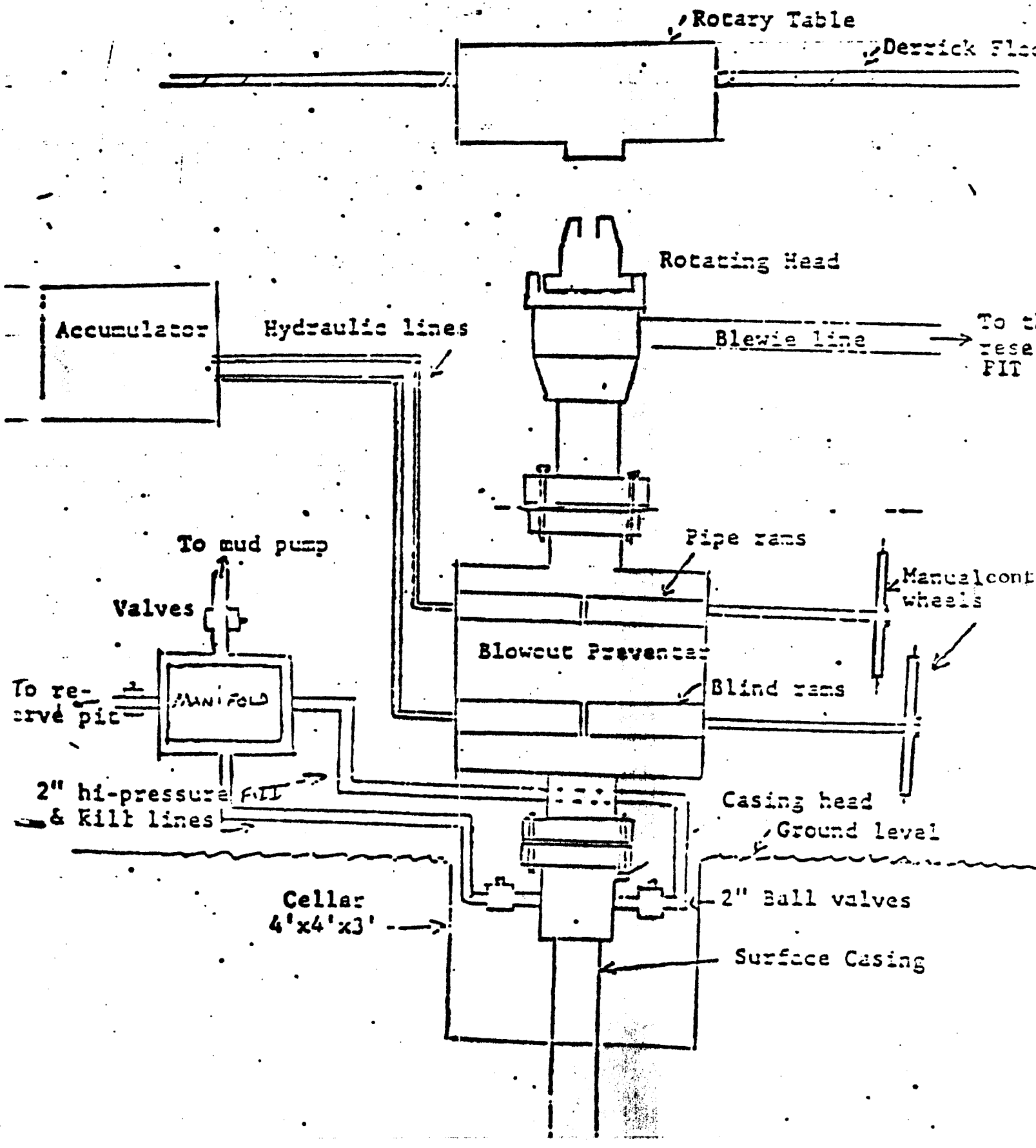
8. Production Casing:

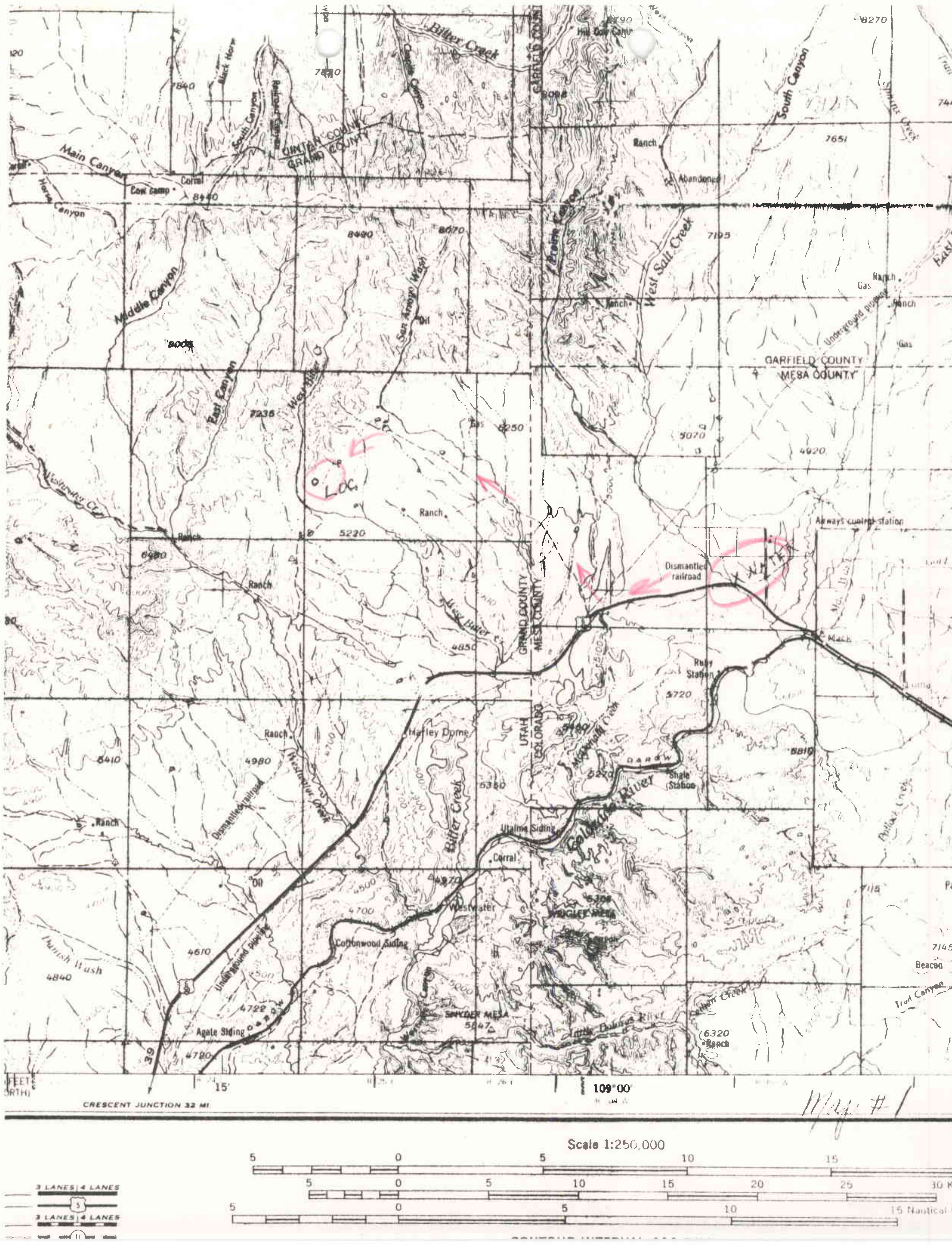
A. Hole size for production casing will be 7-7/8".
B. Approx. setting depth will be about 4500'.
C. Casing Specs. are: 4½" O.D.; K-55; 10.50#; 8-rd thread; R-3, new.
D. If good production is obtained, the casing will be run with a guide shoe at the bottom and about six centralizers and cemented conventionally with sufficient R.F.C. cement to cover 200 ft. above the top of the Dakota formation. The production zone will be perforated, 2 3/8" O.D. tubing will be run, and the well completed conventionally. In the event the production is small, it may be desirable to minimize the damage to the formation by keeping all mud and cement off the formation. In this case the procedure outlined below will be used.
E. Casing will be run with about six centralizers and a cement basket with DV tool set above the production zone.

There will be sufficient casing to extend thru the production zone below the basket with a blind guide shoe on the bottom. The casing will be cemented above the packer with about 85 sks of cement (sufficient to cement thru the Dakota formation). The cement will be allowed to cure at least 48 hrs. The plug can then be drilled out and the casing perforated below the DV tool. Two inch tubing will be run and secured in the tubing head prior to perforating.

SCHEMATIC DIAGRAM OF
CONTROL EQUIPMENT FO THE

A. LANSDALE
HANCOCK #19-2 WELL
SW. SE. SEC. 19-17S-25E.





Bitter Creek
Hill Creek
Hay Canyon
GARFIELD COUNTY
South Canyon
Black Horse
Railroad Canyon
Coyote Canyon
UINTAH COUNTY
GRAND COUNTY
Main Canyon
Cow camp
Corral
8440
Horse Canyon
Ranch
Abandoned
7651
8490
8070
Middle Canyon
San Arroyo Wash
West Salt Creek
7195
Gas
Ranch
Underground pipeline
GARFIELD COUNTY
MESA COUNTY
East Canyon
West Bitter Cr.
7235
Oil
Gas
6250
5070
4920
LOC.
Westwater Cr.
Ranch
5220
6980
Airways control station
Dismantled railroad
Mack
GRAND COUNTY
MESA COUNTY
West Bitter Cr.
4850
Ruby Station
5720
Harley Dome
UTAH
COLORADO
McDonald Creek
Shale Station
Colorado River
Ranch
6410
4980
Dismantled railroad
Westwater Creek
Bitter Creek
6350
Utaline Siding
Corral
Pollock Creek
Oil
4970
Westwater
4700
WRIGLEY MESA
Cottonwood Siding
Danish Wash
4840
4610
Underground pipeline
4722
SNYDER MESA
5647
Little Dolores River
6320
Ranch
7145
Beacon
Trail Canyon
Agate Siding
4720
39
15'
109°00'
CRESCENT JUNCTION 32 MI
Map #1
Scale 1:250,000
3 LANES | 4 LANES

RES. PHONE 801-295-1870 BUS. PHONE 801-359-3575

W. DON QUIGLEY

OIL AND MINERALS CONSULTANT
SUITE 440, 57 W. SO. TEMPLE - SALT LAKE CITY, UTAH 84101

July 16,1979

Mr. Cleon Feight
Oil & Gas Division
Dept. of Natural Resources
1588 West No. Temple
Salt Lake City, Utah 84116

Re: Permit for Hancock
Fed. #19-2 Well

Dear Cleon:

The Lansdale- Hancock Fed.#19-2 well in Section 19-17S-25E, Grand County, Utah is located 1715 ft. from the E-line and 901 from the S-line which is not the required 500-ft. from a sub-division line. This is due to the rugged topography in the area which prohibits the more orthodox location.

It is therefore requested that an exception to the normal spacing rule be granted for this location. Hancock with a farmout to A. Lansdale control all of Section 19.

Sincerely yours,

W. Don Quigley

W. Don Quigley

Chuck Burton Hancock
408-264-3114

STATE OF UTAH
DIVISION OF OIL, GAS, AND MINING

** FILE NOTATIONS **

Date: July 18, 1979

Operator: A. Lansdale

Well No: Hancock Federal 19-2

Location: Sec. 19 T. 17S R. 25E County: Grand

File Prepared: [√] Entered on N.I.D.: [√]

Card Indexed: [√] Completion Sheet: [√]

√API Number: 43-019-30535

CHECKED BY:

Administrative Assistant:

Remarks:

Petroleum Engineer: W.J. Minder 8-10-79

Remarks: Winter Camp Unit. ~~or C-3 spacing~~ Burton Hancock was informed and has no objections.

Director:

Remarks:

INCLUDE WITHIN APPROVAL LETTER:

Bond Required: [ ] Survey Plat Required: [ ]

Order No. Surface Casing Change [ ]
to

Unit

Rule C-3(c), Topographic exception/company owns or controls acreage within a 660' radius of proposed site [ ]

O.K. Rule C-3 [ ] O.K. In Unit

Other:

[ ] Letter Written/Approved

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING
1588 West North Temple
Salt Lake City, Utah 84116
(801) 533-5771

August 10, 1979

A. Lansdale
PO Box 68
Garden Grove, California 92624

Re: Hancock Federal 19-2
Sec. 19, T. 17S., R. 25 E.
Grand County

Dear Sir:

Insofar as this office is concerned, approval to drill the above referred to well is hereby granted in accordance with Section 40-6-11 Utah Code Annotated 1953; and predicated on Rule A-3, General Rules and Regulations and Rules of Practice and Procedure.

Should you determine that it will be necessary to plug and abandon this well, you are hereby requested to immediately notify the following:

MICHAEL T. MINDER - geological Engineer
HOME: 876-3001
OFFICE: 533-5771

Enclosed please find Form OGC-8-X, which is to be completed whether or not sands (aquifers) are encountered during drilling. Your cooperation in completing this form will be appreciated.

Further, it is requested that this Division be notified within 24 hours after drilling operations commence, and that the drilling contractor and rig number be identified.

The API number assigned to this well is 43-019-30535.

Sincerely,
DIVISION OF OIL, GAS AND MINING

M. T. Minder

MICHAEL T. MINDER
GEOLOGICAL ENGINEER

MTM/tlh

March 14, 1980

A. Lansdale
P.O. Box 68
Garden Grove, California 92642

Re: Well No. Hancock Fed. 19-2
Sec. 19, T. 17S, R. 25E.
Grand County, Utah

Gentlemen:

In reference to above mentioned well, considerable time has gone by since approval was obtained from this office.

This office has not received any notification of spudding. If you do not intend to drill this well, please notify this Division. If spudding or any other activity has taken place, please send necessary forms. If we do not hear from your company within fifteen(15) days, we will assume you do not intend to drill this well and action will be taken to terminate the application. If you plan on drilling this location at a later date, please notify as such.

Your prompt attention to the above will be greatly appreciated.

Very truly yours,

DIVISION OF OIL, GAS, AND MINING

Janice Tabish

JANICE TABISH
CLERK-TYPIST

714-638-1352

April 11, 1980

Mrs.
A. Lansdale
P.O. Box 68
Garden Grove, California 92642

Re: Well No. Federal Hancock #19-2
Sec. 19, T. 17S, R. 25E.
Grand County, Utah

Well No. State Lansdale #6
Sec. 32, T. 18S, R. 24E.
Grand County, Utah

Gentlemen:

In reference to above mentioned wells, considerable time has gone by since approval was obtained from this office.

This office has not received any notification of spudding. If you do not intend to drill these wells, please notify this Division. If spudding or any other activity has taken place, please send necessary forms. If we do not hear from your company within fifteen (15) days, we will assume you do not intend to drill these wells and action will be taken to terminate the application. If you plan on drilling these locations at a later date, please notify as such.

Your prompt attention to the above will be greatly appreciated.

Very truly yours,

DIVISION OF OIL, GAS, AND MINING

Janice Tabish

JANICE TABISH
CLERK-TYPIST

11-20-80 called & will call back tomorrow for permission

Call again first of next week 11-24-80

Called again 12-3-80 in having problems getting a hold of Hancock for permission to drill this well. Will call back

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING
1588 West North Temple
Salt Lake City, Utah 84116
(801) 533-5771

June 2,1981

A. Lansdale
P.O. Box 68
Garden Grove, California 92642

Re: Government-Lansdale #13
Sec. 4, T. 19S. R.25E.
Grand County, Utah

Re: Hancock Federal #19-2
Sec. 19, T.17S. R.25E.
Grand County Utah

Gentlemen:

In reference to above mentioned wells, considerable time has gone by since approval was obtained from this office.

This office has not recieved any notification of spudding. If you do not intend to drill these wells, please notify this Division. If spudding or any other activity has taken place, please send necessary forms. (If we do not hear from your company within fifteen (15) days, we will assume you do not intend to drill these wells and action will be taken to terminate the application.) If you plan on drilling these well locations at a later date please notify as such.

Your prompt attention to the above will be greatly appreciated.

Very truly yours,

DIVISION OF OIL, GAS, AND MINING

Sandy Bates

SANDY BATES
CLERK-TYPIST

STATE OF UTAH
NATURAL RESOURCES & ENERGY
Oil, Gas & Mining

Scott M. Matheson, Governor
Temple A. Reynolds, Executive Director
Cleon B. Feight, Division Director

4241 State Office Building • Salt Lake City, UT 84114 • 801-533-5771

February 2, 1982

A. Lansdale
P.O. Box 68
Garden Grove, Cal. 92642

Re: Government Lansdale #13
Sec. 4, T. 19S, R. 25E
Grand County, Utah

Well No. Hancock Federal 19-2
Sec. 19, T. 17S, R. 25E
Grand County, Utah

Gentlemen:

Approval to drill the above mentioned well, which was granted in our letter of Nov 6, 80 & Aug 10, **is hereby terminated for failure to spud it within a reasonable period of time.**

If and when you should decide to drill this well, it will be necessary for you to again obtain the approval of this Division.

Very truly yours,

DIVISION OF OIL, GAS AND MINING

Cleon B. Feight

Cleon B. Feight
Director